

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

**Complete if Known**

<b>Application Number</b>	10/595,533
<b>Filing Date</b>	04/26/2006
<b>First Named Inventor</b>	CRAIG, Martin et al.
<b>Art Unit</b>	To Be Assigned
<b>Examiner Name</b>	To Be Assigned
<b>Attorney Docket Number</b>	046430.020 (updated)

## U.S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

[illegible]Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 601.01. <sup>3</sup> Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 422 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the United States Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

***If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.***

Substitute for form 1449B/PTO  <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Complete if Known</th> </tr> <tr> <td style="width: 30%;">Application Number</td> <td>10/595,533</td> </tr> <tr> <td>Filing Date</td> <td>04/26/2006</td> </tr> <tr> <td>First Named Inventor</td> <td>CRAIG, Martin et al.</td> </tr> <tr> <td>Art Unit</td> <td>To Be Assigned</td> </tr> <tr> <td>Examiner Name</td> <td>To Be Assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>046430.020 (updated)</td> </tr> </table>		Complete if Known		Application Number	10/595,533	Filing Date	04/26/2006	First Named Inventor	CRAIG, Martin et al.	Art Unit	To Be Assigned	Examiner Name	To Be Assigned	Attorney Docket Number	046430.020 (updated)
Complete if Known																	
Application Number	10/595,533																
Filing Date	04/26/2006																
First Named Inventor	CRAIG, Martin et al.																
Art Unit	To Be Assigned																
Examiner Name	To Be Assigned																
Attorney Docket Number	046430.020 (updated)																
Sheet	2	of	2														

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KANG, Sung Chul et al., "Temperature-Independent Strain Sensor System Using a Tilted Fiber Bragg Grating Demodulator," IEEE Photonics Technology Letters, October 1998, Pages 1481-1483, Vol. 10, No. 10, IEEE, Piscataway, NJ	
		WARD, Mark, "Keeping better track of trains," New Scientist, December 2, 1995, Page 25, New Scientist, United Kingdom	
		<a href="http://www.vit.fi/tuo74/projects/connmo.htm">http://www.vit.fi/tuo74/projects/connmo.htm</a> , "Condition monitoring of high temperature power plant components using metal embedded fibre optical Bragg-gratings," VIT Industrial Systems	
		ECKE, Wolfgang et al., "On-line characterization of impacts on electrical train current collectors using integrated optical fiber grating sensor network," Smart Structures and Materials 2005: Modeling, Signal Processing, and Control, Edited by Ralph C. Smith, Proceedings of the SPIE, May 2005, Pages 114-123, Vol. 5758, SPIE - The International Society for Optical Engineering, Bellingham, WA	
		"Pantograph Condition Monitoring," British Rail Research, Pages 1-4, British Rail Research, Derby, England	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.